CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.15/GMMD/CSR-03/1105b/CEMENT/2015-16 Date: 26.03.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. Gnanendra Murthy. M.D,** #410, Balaji Nilaya, 5th Main Road, 4th Cross, Kengeri Satellite Town, Bangalore – 60.
*NAME OF THE WORK	:	Improvements and construction of CC road from Chaplamma circle to Mutturaya swamy temple in Dasarahalli Ward No. 15 BBMP, Bangalore.
*REFERENCE	:	EE/DD/WO/61/2015-16 Dated: 24.03.2016
SAMPLE ID	:	Cement - Sample 2
SAMPLE RECEIVED ON	:	24.03.2016
PERIOD OF TESTING	:	24.03.2016 to 26.03.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.15/GMMD/CSR-03/1105b/SAND-Gradation/2015-16 : 26.03.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Gnanendra Murthy. M.D,**
#410, Balaji Nilaya, 5th Main Road, 4th Cross, Kengeri Satellite Town, Bangalore – 60.

*** Name of Work** : Improvements and construction of CC road from Chaplamma circle to Mutturaya swamy temple in Dasarahalli Ward No. 15 BBMP, Bangalore.

Reference : EE/DD/WO/61/2015-16 Dated: 24.03.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates - Sample 2

Sample Received on : 24.03.2016

Date of Testing : 26.03.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.40	90-100	90-100	90-100	95-100
2.36	74.40	60-95	75-100	85-100	95-100
1.18	48.40	30-70	55-90	75-100	90-100
600 Micron	22.80	15-34	35-59	60-79	80-100
300 Micron	12.80	5-20	8-30	12-40	15-50
150 Micron	4.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.15/GMMD/CSR-03/1105b/AGG/GR/2015-16 : 26.03.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Gnanendra Murthy. M.D,**
#410, Balaji Nilaya, 5th Main Road, 4th Cross, Kengeri Satellite Town, Bangalore – 60.

*** Name of Work** : Improvements and construction of CC road from Chaplamma circle to Mutturaya swamy temple in Dasarahalli Ward No. 15 BBMP, Bangalore.

Reference : EE/DD/WO/61/2015-16 Dated: 24.03.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) - Sample 2

Sample Received on : 24.03.2016

Date of Testing : 26.03.2016

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.50	95-100	85-100
20	38.50	30-70	0-20
10	18.00	10-35	0-5
4.75	2.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.15/GMMD/CSR-03/1105b/CUBE/2015-16 26.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Gnanendra Murthy. M.D,**
#410, Balaji Nilaya, 5th Main Road, 4th Cross, Kengeri Satellite Town, Bangalore – 60.

*** Name of the work** : Improvements and construction of CC road from Chaplamma circle to Mutturaya swamy temple in Dasarahalli Ward No. 15 BBMP, Bangalore.

*** Reference** : EE/DD/WO/61/2015-16 Dated: 24.03.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{30}

Compressive Strength as on : 28th day

Sample Received on : 26.04.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2016	26.04.2016	8.135	701.3	31.17
2	29.03.2016	26.04.2016	8.239	710.2	31.56
3	29.03.2016	26.04.2016	8.354	725.3	32.24

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.15/GMMD/CSR-03/1105b/CUBE/2015-16 26.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Gnanendra Murthy. M.D,**
#410, Balaji Nilaya, 5th Main Road, 4th Cross, Kengeri Satellite Town, Bangalore – 60.

*** Name of the work** : Improvements and construction of CC road from Chaplamma circle to Mutturaya swamy temple in Dasarahalli Ward No. 15 BBMP, Bangalore.

*** Reference** : EE/DD/WO/61/2015-16 Dated: 24.03.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{30}

Compressive Strength as on : 28th day

Sample Received on : 26.04.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2016	26.04.2016	8.183	705.3	31.35
2	29.03.2016	26.04.2016	8.297	715.3	31.79
3	29.03.2016	26.04.2016	8.332	725.6	32.25

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